

READ FREE ACCELERATE BUILDING AND SCALING HIGH PERFORMING TECHNOLOGY ORGANIZATIONS [PDF]

WINNER OF THE SHINGO PUBLICATION AWARD ACCELERATE YOUR ORGANIZATION TO WIN IN THE MARKETPLACE HOW CAN WE APPLY TECHNOLOGY TO DRIVE BUSINESS VALUE FOR YEARS WE VE BEEN TOLD THAT THE PERFORMANCE OF SOFTWARE DELIVERY TEAMS DOESN T MATTER THAT IT CAN T PROVIDE A COMPETITIVE ADVANTAGE TO OUR COMPANIES THROUGH FOUR YEARS OF GROUNDBREAKING RESEARCH TO INCLUDE DATA COLLECTED FROM THE STATE OF DEVOPS REPORTS CONDUCTED WITH PUPPET DR NICOLE FORSGREN JEZ HUMBLE AND GENE KIM SET OUT TO FIND A WAY TO MEASURE SOFTWARE DELIVERY PERFORMANCE AND WHAT DRIVES IT USING RIGOROUS STATISTICAL METHODS THIS BOOK PRESENTS BOTH THE FINDINGS AND THE SCIENCE BEHIND THAT RESEARCH MAKING THE INFORMATION ACCESSIBLE FOR READERS TO APPLY IN THEIR OWN ORGANIZATIONS READERS WILL DISCOVER HOW TO MEASURE THE PERFORMANCE OF THEIR TEAMS AND WHAT

CAPABILITIES THEY SHOULD INVEST IN TO DRIVE HIGHER PERFORMANCE THIS BOOK IS IDEAL FOR MANAGEMENT AT EVERY LEVEL CEO IT VP 3P OPERATION

DEVOPS MYSQL 3P MYSQL MAKE NO MIST

A CULTURE WHETHER YOU RE INTENTIONAL ABOUT IT OR NOT CORPORATE CULTURE IS GROUND ZERO FOR YOUR ORGANIZATION IF LEFT TO CHANCE

WITH BUILDING FINANCIAL TRADING SYSTEMS FOCUS ON SCALABILITY ARCHITECTURE AND IMPLEMENTING LOW LATENCY NETWORK COMMUNICATION IN C OPTIMIZE CODE AND USE PARALLEL COMPUTING TECHNIQUES FOR BETTER PERFORMANCE PURCHASE OF THE PRINT OR KINDLE BOOK INCLUDES A FREE PDF EBOOK BOOK DESCRIPTION UNLOCK THE SECRETS OF THE FINANCE INDUSTRY AND DIVE INTO THE WORLD OF HIGH PERFORMANCE TRADING SYSTEMS WITH C HIGH PERFORMANCE FOR FINANCIAL SYSTEMS TRADING SYSTEMS ARE THE BACKBONE OF THE FINANCIAL WORLD AND UNDERSTANDING HOW TO BUILD THEM FOR OPTIMAL PERFORMANCE IS CRUCIAL FOR SUCCESS IF YOU VE EVER DREAMT OF CREATING SCALABLE AND CUTTING EDGE FINANCIAL SOFTWARE THIS GUIDE IS YOUR KEY TO SUCCESS A CORNERSTONE OF THIS BOOK IS ITS COVERAGE OF SYSTEM DESIGN AND ARCHITECTURE THE BOOK STARTS BY OUTLINING THE ROLE OF C IN FINANCE AND TRADING YOU LL LEARN THE PRINCIPLES AND METHODOLOGIES BEHIND BUILDING SYSTEMS THAT CAN HANDLE VAST AMOUNTS OF DATA EXECUTE COMPLEX TRADING STRATEGIES WITH EASE AND MAINTAIN THE HIGHEST LEVELS OF RELIABILITY ARMED WITH THIS KNOWLEDGE YOU LL BE EQUIPPED TO TACKLE EVEN THE MOST CHALLENGING TRADING SCENARIOS IN THE FAST PACED WORLD OF FINANCE EVERY MILLISECOND COUNTS THIS BOOK DELVES INTO LOW LATENCY STRATEGIES THAT WILL ENABLE YOUR TRADING SYSTEMS TO REACT WITH LIGHTNING SPEED YOU LL ALSO LEARN THE ART OF REDUCING LATENCY OPTIMIZING CODE AND LEVERAGING THE LATEST HARDWARE AND SOFTWARE TECHNIQUES TO GAIN A COMPETITIVE EDGE IN THE MARKET BY THE END OF THIS BOOK YOU LL BE WELL VERSED IN ARCHITECTING A FINANCIAL TRADING SYSTEM AS WELL AS ADVANCED STRATEGIES AND NEW INDUSTRY TRENDS WHAT YOU WILL LEARN DESIGN ARCHITECTURE FOR SCALABLE FINANCIAL TRADING SYSTEMS UNDERSTAND STRATEGIES FOR LOW LATENCY TRADING AND HIGH FREQUENCY TRADING DISCOVER HOW TO IMPLEMENT MACHINE LEARNING ALGORITHMS FOR FINANCIAL DATA ANALYSIS UNDERSTAND RISK MANAGEMENT TECHNIQUES FOR FINANCIAL TRADING SYSTEMS EXPLORE ADVANCED TOPICS IN FINANCE AND TRADING INCLUDING MACHINE LEARNING FOR ALGORITHMIC TRADING AND PORTFOLIO OPTIMIZATION GET UP TO SPEED WITH BEST PRACTICES FOR DEVELOPING FINANCIAL TRADING SYSTEMS WITH C WHO THIS BOOK IS FOR THIS BOOK IS FOR EXPERIENCED C DEVELOPERS WHO WANT TO ENTER THE FINANCE INDUSTRY AND LEARN HOW TRADING SYSTEMS WORK IT IS ALSO SUITABLE FOR QUANTITATIVE ANALYSTS FINANCIAL

ENGINEERS AND ANYONE INTERESTED IN BUILDING SCALABLE AND ROBUST TRADING SYSTEMS THE BOOK ASSUMES FAMILIARITY WITH THE C PROGRAMMING LANGUAGE DATA STRUCTURES AND ALGORITHMS ADDITIONALLY READERS SHOULD HAVE A BASIC UNDERSTANDING OF FINANCE AND TRADING CONCEPTS SUCH AS MARKET DATA TRADING STRATEGIES AND RISK MANAGEMENT HIGH PERFORMANCE DATA MINING SCALING ALGORITHMS APPLICATIONS AND SYSTEMS BRINGS TOGETHER IN ONE PLACE IMPORTANT CONTRIBUTIONS AND UP TO DATE RESEARCH RESULTS IN THIS FAST MOVING AREA HIGH PERFORMANCE DATA MINING SCALING ALGORITHMS APPLICATIONS AND SYSTEMS SERVES AS AN EXCELLENT REFERENCE PROVIDING INSIGHT INTO SOME OF THE MOST CHALLENGING RESEARCH ISSUES IN THE FIELD THIS IBM REDBOOKS PUBLICATION DOCUMENTS AND ADDRESSES TOPICS TO PROVIDE STEP BY STEP PROGRAMMING CONCEPTS TO TUNE THE APPLICATIONS TO USE IBM POWER8 HARDWARE ARCHITECTURE WITH THE TECHNICAL COMPUTING SOFTWARE STACK THIS PUBLICATION EXPLORES TESTS AND DOCUMENTS HOW TO IMPLEMENT AN IBM HIGH PERFORMANCE COMPUTING HPC SOLUTION ON POWER8 BY USING IBM TECHNICAL INNOVATIONS TO HELP SOLVE CHALLENGING SCIENTIFIC TECHNICAL AND BUSINESS PROBLEMS THIS BOOK DEMONSTRATES AND DOCUMENTS THAT THE COMBINATION OF IBM HPC HARDWARE AND SOFTWARE SOLUTIONS DELIVERS SIGNIFICANT VALUE TO TECHNICAL COMPUTING CLIENTS IN NEED OF COST EFFECTIVE HIGHLY SCALABLE AND ROBUST SOLUTIONS THIS BOOK TARGETS TECHNICAL PROFESSIONALS CONSULTANTS TECHNICAL SUPPORT STAFF IT ARCHITECTS AND IT SPECIALISTS WHO ARE RESPONSIBLE FOR DELIVERING COST EFFECTIVE HPC SOLUTIONS THAT HELP UNCOVER INSIGHTS AMONG CLIENTS DATA SO THAT THEY CAN ACT TO OPTIMIZE BUSINESS RESULTS PRODUCT DEVELOPMENT AND SCIENTIFIC DISCOVERIES THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS PAPERS FROM THE 8TH INTERNATIONAL WORKSHOP ON PERFORMANCE MODELING BENCHMARKING AND SIMULATION OF HIGH PERFORMANCE COMPUTING SYSTEMS PMBS 2017 HELD IN DENVER COLORADO USA IN NOVEMBER 2017 THE 10 FULL PAPERS AND 3 SHORT PAPERS INCLUDED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FROM 36 SUBMISSIONS THEY WERE ORGANIZED IN TOPICAL SECTIONS NAMED PERFORMANCE EVALUATION AND ANALYSIS PERFORMANCE MODELING AND SIMULATION AND SHORT PAPERS AUTHORS JIM JEFFERS AND JAMES REINDERS SPENT TWO YEARS HELPING EDUCATE CUSTOMERS ABOUT THE PROTOTYPE

AND PRE PRODUCTION HARDWARE BEFORE INTEL INTRODUCED THE FIRST INTEL XEON PHI COPROCESSOR THEY HAVE DISTILLED THEIR OWN EXPERIENCES COUPLED WITH INSIGHTS FROM MANY EXPERT CUSTOMERS INTEL FIELD ENGINEERS APPLICATION ENGINEERS AND TECHNICAL CONSULTING ENGINEERS TO CREATE THIS AUTHORITATIVE FIRST BOOK ON THE ESSENTIALS OF PROGRAMMING FOR THIS NEW ARCHITECTURE AND THESE NEW PRODUCTS THIS BOOK IS USEFUL EVEN BEFORE YOU EVER TOUCH A SYSTEM WITH AN INTEL XEON PHI COPROCESSOR TO ENSURE THAT YOUR APPLICATIONS RUN AT MAXIMUM EFFICIENCY THE AUTHORS EMPHASIZE KEY TECHNIQUES FOR PROGRAMMING ANY MODERN PARALLEL COMPUTING SYSTEM WHETHER BASED ON INTEL XEON PROCESSORS INTEL XEON PHI COPROCESSORS OR OTHER HIGH PERFORMANCE MICROPROCESSORS APPLYING THESE TECHNIQUES WILL GENERALLY INCREASE YOUR PROGRAM PERFORMANCE ON ANY SYSTEM AND BETTER PREPARE YOU FOR INTEL XEON PHI COPROCESSORS AND THE INTEL MIC ARCHITECTURE A PRACTICAL GUIDE TO THE ESSENTIALS OF THE INTEL XEON PHI COPROCESSOR PRESENTS BEST PRACTICES FOR PORTABLE HIGH PERFORMANCE COMPUTING AND A FAMILIAR AND PROVEN THREADED SCALAR VECTOR PROGRAMMING MODEL INCLUDES SIMPLE BUT INFORMATIVE CODE EXAMPLES THAT EXPLAIN THE UNIQUE ASPECTS OF THIS NEW HIGHLY PARALLEL AND HIGH PERFORMANCE COMPUTATIONAL PRODUCT COVERS WIDE VECTORS MANY CORES MANY THREADS AND HIGH BANDWIDTH CACHE MEMORY ARCHITECTURE FOR THE FOURTH TIME THE LEIBNIZ SUPERCOMPUTING CENTRE LRZ AND THE COM TENCE NETWORK FOR TECHNICAL SCIENTI C HIGH PERFORMANCE COMPUTING IN BAVARIA KONWIHR PUBLISHES THE RESULTS FROM SCIENTI C PROJECTS CONDUCTED ON THE C PUTER SYSTEMS HLRB I AND II HIGH PERFORMANCE COMPUTER IN BAVARIA THIS BOOK REPORTS THE RESEARCH CARRIED OUT ON THE HLRB SYSTEMS WITHIN THE LAST THREE YEARS AND COMPILES THE PROCEEDINGS OF THE THIRD JOINT HLRB AND KONWIHR RESULT AND REVIEWING WORKSHOP 3RD AND 4TH DECEMBER 2007 IN GARCHING IN 2000 HLRB I WAS THE RST SYSTEM IN EUROPE THAT WAS CAPABLE OF PERFORMING MORE THAN ONE TERA OP S OR ONE BILLION OATING POINT OPERATIONS PER SECOND IN 2006 IT WAS REPLACED BY HLRB II AFTER A SUBSTANTIAL UPGRADE IT NOW ACHIEVES A PEAK PERFORMANCE OF MORE THAN 62 TERA OP S TO INSTALL AND OPERATE THIS POWERFUL SYSTEM LRZ HAD TO MOVE TO ITS NEW FACILITIES IN GARCHING HOWEVER THE SITUATION REGARDING THE NEED FOR MORE COMPUTATION CYCLES HAS NOT CHANGED

MUCH SINCE 2000 THE DEMAND FOR HIGHER PERFORMANCE IS STILL PRESENT A TREND THAT IS LIKELY TO CONTINUE FOR THE FORESEEABLE FUTURE OTHER RESOURCES LIKE MEMORY AND DISK SPACE ARE CURRENTLY IN SUFFICIENT ABUNDANCE ON THIS NEW SYSTEM THIS BOOK CONSTITUTES THE REFERENCED POST CONFERENCE PROCEEDINGS OF 13 WORKSHOPS HELD AT THE 34TH INTERNATIONAL ISC HIGH PERFORMANCE 2019 CONFERENCE IN FRANKFURT GERMANY IN JUNE 2019 HPC IO IN THE DATA CENTER HPC IODC WORKSHOP ON PERFORMANCE SCALABILITY OF STORAGE SYSTEMS WOPSSS WORKSHOP ON PERFORMANCE SCALABILITY OF STORAGE SYSTEMS WOPSSS 13TH WORKSHOP ON VIRTUALIZATION IN HIGH PERFORMANCE CLOUD COMPUTING VHPC 18 3RD INTERNATIONAL WORKSHOP ON IN SITU VISUALIZATION INTRODUCTION AND APPLICATIONS EXACOMM FOURTH INTERNATIONAL WORKSHOP ON COMMUNICATION ARCHITECTURES FOR HPC BIG DATA DEEP LEARNING AND CLOUDS AT EXTREME SCALE INTERNATIONAL WORKSHOP ON OPENPOWER FOR HPC IWOPH 18 IXPUG WORKSHOP MANY CORE COMPUTING ON INTEL PROCESSORS APPLICATIONS PERFORMANCE AND BEST PRACTICE SOLUTIONS WORKSHOP ON SUSTAINABLE ULTRASCALE COMPUTING SYSTEMS APPROXIMATE AND TRANSPRECISION COMPUTING ON EMERGING TECHNOLOGIES ATCET FIRST WORKSHOP ON THE CONVERGENCE OF LARGE SCALE SIMULATION AND ARTIFICIAL INTELLIGENCE 3RD WORKSHOP FOR OPEN SOURCE SUPERCOMPUTING OPENSUCO FIRST WORKSHOP ON INTERACTIVE HIGH PERFORMANCE COMPUTING WORKSHOP ON PERFORMANCE PORTABLE PROGRAMMING MODELS FOR ACCELERATORS P 3MA THE 48 FULL PAPERS INCLUDED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED THEY COVER ALL ASPECTS OF RESEARCH DEVELOPMENT AND APPLICATION OF LARGE SCALE HIGH PERFORMANCE EXPERIMENTAL AND COMMERCIAL SYSTEMS TOPICS INCLUDE HPC COMPUTER ARCHITECTURE AND HARDWARE PROGRAMMING MODELS SYSTEM SOFTWARE AND APPLICATIONS SOLUTIONS FOR HETEROGENEITY RELIABILITY POWER EFFICIENCY OF SYSTEMS VIRTUALIZATION AND CONTAINERIZED ENVIRONMENTS BIG DATA AND CLOUD COMPUTING AND ARTIFICIAL INTELLIGENCE THE 53 TECHNICAL PAPERS IN THIS BOOK SHOW THE IMPROVEMENTS AND DESIGN TECHNIQUES THAT RESEARCHERS HAVE APPLIED TO PERFORMANCE AND RACING ENGINES THEY PROVIDE AN INSIGHT INTO WHAT THE ENGINEERS CONSIDER TO BE THE TOP IMPROVEMENTS NEEDED TO ADVANCE ENGINE TECHNOLOGY AND COVER SUBJECTS SUCH AS 1 DIRECT INJECTION 2 VALVE SPRING ADVANCEMENTS 3 TURBOCHARGING 4

VARIABLE VALVE CONTROL 5 COMBUSTION EVALUATION AND 5 NEW RACING ENGINES THIS BOOK CONSTITUTES REVISED SELECTED PAPERS FROM 7 WORKSHOPS THAT WERE HELD IN CONJUNCTION WITH THE ISC HIGH PERFORMANCE 2016 CONFERENCE IN FRANKFURT GERMANY IN JUNE 2016 THE 45 PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FOR INCLUSION IN THIS BOOK THEY STEM FROM THE FOLLOWING WORKSHOPS WORKSHOP ON EXASCALE MULTI MANY CORE COMPUTING SYSTEMS E MUCOCOS SECOND INTERNATIONAL WORKSHOP ON COMMUNICATION ARCHITECTURES AT EXTREME SCALE EXACOMM HPC 10 IN THE DATA CENTER WORKSHOP HPC IODC INTERNATIONAL WORKSHOP ON OPENPOWER FOR HPC IWOPH WORKSHOP ON THE APPLICATION PERFORMANCE ON INTEL XEON PHI BEING PREPARED FOR KNL AND BEYOND IXPUG WORKSHOP ON PERFORMANCE AND SCALABILITY OF STORAGE SYSTEMS WOPSSS AND INTERNATIONAL WORKSHOP ON PERFORMANCE PORTABLE PROGRAMMING MODELS FOR ACCELERATORS P3MA THIS BOOK IS BASED ON THE 18 TUTORIALS PRESENTED DURING THE 23RD WORKSHOP ON ADVANCES IN ANALOG CIRCUIT DESIGN EXPERT DESIGNERS PRESENT READERS WITH INFORMATION ABOUT A VARIETY OF TOPICS AT THE FRONTIER OF ANALOG CIRCUIT DESIGN SERVING AS A VALUABLE REFERENCE TO THE STATE OF THE ART FOR ANYONE INVOLVED IN ANALOG CIRCUIT RESEARCH AND DEVELOPMENT THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING HIPC 2008 HELD IN BANGALORE INDIA IN DECEMBER 2008 THE 46 REVISED FULL PAPERS PRESENTED TOGETHER WITH THE ABSTRACTS OF 5 KEYNOTE TALKS WERE CAREFULLY REVIEWED AND SELECTED FROM 317 SUBMISSIONS THE PAPERS ARE ORGANIZED IN TOPICAL SECTIONS ON APPLICATIONS PERFORMANCE OPTIMIZAZION PARALLEL ALGORITHMS AND APPLICATIONS SCHEDULING AND RESOURCE MANAGEMENT SENSOR NETWORKS ENERGY AWARE COMPUTING DISTRIBUTED ALGORITHMS COMMUNICATION NETWORKS AS WELL AS ARCHITECTURE CONTEMPORARY HIGH PERFORMANCE COMPUTING FROM PETASCALE TOWARD EXASCALE VOLUME 3 FOCUSES ON THE ECOSYSTEMS SURROUNDING THE WORLD S LEADING CENTERS FOR HIGH PERFORMANCE COMPUTING HPC IT COVERS MANY OF THE IMPORTANT FACTORS INVOLVED IN EACH ECOSYSTEM COMPUTER ARCHITECTURES SOFTWARE APPLICATIONS FACILITIES AND SPONSORS THIS THIRD VOLUME WILL BE A CONTINUATION OF THE TWO PREVIOUS VOLUMES AND WILL INCLUDE OTHER HPC ECOSYSTEMS

IN THE DISCIPLINES BIOSCIENCES CHEMISTRY CHEMICAL PHYSICS SOLID STATE PHYSICS HIGH ENERGY PHYSICS ASTROPHYSICS GEOPHYSICS COMPUTATIONAL FLUID DYNAMICS AND COMPUTER SCIENCE THE AUTHORS DESCRIBE THEIR SCIENTIFIC BACKGROUND THEIR RESOURCE REQUIREMENTS WITH RESPECT TO TOP LEVEL SUPERCOMPUTERS AND THEIR METHODS FOR EFFICIENT UTILIZATION OF THE COSTLY HIGH PERFORMANCE COMPUTING POWER CONTRIBUTIONS OF INTERDISCIPLINARY RESEARCH PROJECTS THAT HAVE BEEN SUPPORTED BY THE COMPETENCE NETWORK FOR SCIENTIFIC HIGH PERFORMANCE COMPUTING IN BAVARIA KONWIHR COMPLETE THE BROAD RANGE OF SUPERCOMPUTER RESEARCH AND APPLICATIONS COVERED BY THIS VOLUME THIS VOLUME CONSTITUTES THE PAPERS OF SEVERAL WORKSHOPS WHICH WERE HELD IN CONJUNCTION WITH THE 38TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING ISC HIGH PERFORMANCE 2023 HELD IN HAMBURG GERMANY DURING MAY 21 25 2023 THE 49 REVISED FULL PAPERS PRESENTED IN THIS BOOK WERE CAREFULLY REVIEWED AND SELECTED FROM 70 SUBMISSIONS ISC HIGH PERFORMANCE 2023 PRESENTS THE FOLLOWING WORKSHOPS 2ND INTERNATIONAL WORKSHOP ON MALLEABILITY TECHNIQUES APPLICATIONS IN HIGH PERFORMANCE COMPUTING HPCMALL 18TH WORKSHOP ON VIRTUALIZATION IN HIGH PERFORMANCE CLOUD COMPUTING VHPC 23 HPC I O IN THE DATA CENTER HPC IODC WORKSHOP ON CONVERGED COMPUTING OF CLOUD HPC AND EDGE WOCC 23 7TH INTERNATIONAL WORKSHOP ON IN SITU VISUALIZATION WOIV 23 WORKSHOP ON MONITORING AND OPERATIONAL DATA ANALYTICS MODA 23 2ND WORKSHOP ON COMMUNICATION I O AND STORAGE AT SCALE ON NEXT GENERATION PLATFORMS SCALABLE INFRASTRUCTURES FIRST INTERNATIONAL WORKSHOP ON RISC V FOR HPC SECOND COMBINED WORKSHOP ON INTERACTIVE AND URGENT SUPERCOMPUTING CWIUS HPC ON HETEROGENEOUS HARDWARE H3 APACHE SPARK IS AMAZING WHEN EVERYTHING CLICKS BUT IF YOU HAVEN T SEEN THE PERFORMANCE IMPROVEMENTS YOU EXPECTED OR STILL DON T FEEL CONFIDENT ENOUGH TO USE SPARK IN PRODUCTION THIS PRACTICAL BOOK IS FOR YOU AUTHORS HOLDEN KARAU AND RACHEL WARREN DEMONSTRATE PERFORMANCE OPTIMIZATIONS TO HELP YOUR SPARK QUERIES RUN FASTER AND HANDLE LARGER DATA SIZES WHILE USING FEWER RESOURCES IDEAL FOR SOFTWARE ENGINEERS DATA ENGINEERS DEVELOPERS AND SYSTEM ADMINISTRATORS WORKING WITH LARGE SCALE DATA APPLICATIONS THIS BOOK DESCRIBES TECHNIQUES THAT CAN REDUCE DATA INFRASTRUCTURE

COSTS AND DEVELOPER HOURS NOT ONLY WILL YOU GAIN A MORE COMPREHENSIVE UNDERSTANDING OF SPARK YOU LL ALSO LEARN HOW TO MAKE IT SING WITH THIS BOOK YOU LL EXPLORE HOW SPARK SQL S NEW INTERFACES IMPROVE PERFORMANCE OVER SQL S RDD DATA STRUCTURE THE CHOICE BETWEEN DATA JOINS IN CORE SPARK AND SPARK SQL TECHNIQUES FOR GETTING THE MOST OUT OF STANDARD RDD TRANSFORMATIONS HOW TO WORK AROUND PERFORMANCE ISSUES IN SPARK S KEY VALUE PAIR PARADIGM WRITING HIGH PERFORMANCE SPARK CODE WITHOUT SCALA OR THE JVM HOW TO TEST FOR FUNCTIONALITY AND PERFORMANCE WHEN APPLYING SUGGESTED IMPROVEMENTS USING SPARK MLLIB AND SPARK ML MACHINE LEARNING LIBRARIES SPARK S STREAMING COMPONENTS AND EXTERNAL COMMUNITY PACKAGES THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING HIPC 2006 HELD IN BANGALORE INDIA DECEMBER 2006 COVERAGE IN THIS VOLUME INCLUDES SCHEDULING AND LOAD BALANCING NETWORK AND DISTRIBUTED ALGORITHMS APPLICATION SOFTWARE NETWORK SERVICES AD HOC NETWORKS SYSTEMS SOFTWARE SENSOR NETWORKS AND PERFORMANCE EVALUATION AS WELL AS ROUTING AND DATA MANAGEMENT ALGORITHMS HIGH PERFORMANCE MYSQL IS THE DEFINITIVE GUIDE TO BUILDING FAST RELIABLE SYSTEMS WITH MYSQL WRITTEN BY NOTED EXPERTS WITH YEARS OF REAL WORLD EXPERIENCE BUILDING VERY LARGE SYSTEMS THIS BOOK COVERS EVERY ASPECT OF MYSQL PERFORMANCE IN DETAIL AND FOCUSES ON ROBUSTNESS SECURITY AND DATA INTEGRITY HIGH PERFORMANCE MYSQL TEACHES YOU ADVANCED TECHNIQUES IN DEPTH SO YOU CAN BRING OUT MYSQL S FULL POWER LEARN HOW TO DESIGN SCHEMAS INDEXES QUERIES AND ADVANCED MYSQL FEATURES FOR MAXIMUM PERFORMANCE AND GET DETAILED GUIDANCE FOR TUNING YOUR MYSQL SERVER OPERATING SYSTEM AND HARDWARE TO THEIR FULLEST POTENTIAL YOU LL ALSO LEARN PRACTICAL SAFE HIGH PERFORMANCE WAYS TO SCALE YOUR APPLICATIONS WITH REPLICATION LOAD BALANCING HIGH AVAILABILITY AND FAILOVER THIS SECOND EDITION IS COMPLETELY REVISED AND GREATLY EXPANDED WITH DEEPER COVERAGE IN ALL AREAS MAJOR ADDITIONS INCLUDE EMPHASIS THROUGHOUT ON BOTH PERFORMANCE AND RELIABILITY THOROUGH COVERAGE OF STORAGE ENGINES INCLUDING IN DEPTH TUNING AND OPTIMIZATIONS FOR THE INNODB STORAGE ENGINE EFFECTS OF NEW FEATURES IN MYSQL 5 0 AND 5 1 INCLUDING STORED PROCEDURES

PARTITIONED DATABASES TRIGGERS AND VIEWS A DETAILED DISCUSSION ON HOW TO BUILD VERY LARGE HIGHLY SCALABLE SYSTEMS WITH MYSQL NEW OPTIONS FOR BACKUPS AND REPLICATION OPTIMIZATION OF ADVANCED QUERYING FEATURES SUCH AS FULL TEXT SEARCHES FOUR NEW APPENDICES THE BOOK ALSO INCLUDES CHAPTERS ON BENCHMARKING PROFILING BACKUPS SECURITY AND TOOLS AND TECHNIQUES TO HELP YOU MEASURE MONITOR AND MANAGE YOUR MYSQL INSTALLATIONS LEVERAGE THE POWER OF POSTGRESQL 10 TO DESIGN ADMINISTER AND MAINTAIN A HIGH PERFORMANCE DATABASE SOLUTION KEY FEATURES OBTAIN OPTIMAL POSTGRESQL 10 DATABASE PERFORMANCE RANGING FROM INITIAL DESIGN TO ROUTINE MAINTENANCE FINE TUNE THE PERFORMANCE OF YOUR QUERIES AND AVOID THE COMMON PITFALLS THAT CAN SLOW YOUR SYSTEM DOWN CONTAINS TIPS AND TRICKS ON SCALING SUCCESSFUL DATABASE INSTALLATIONS AND ENSURING A HIGHLY AVAILABLE POSTGRESQL SOLUTION BOOK DESCRIPTION POSTGRESQL DATABASE SERVERS HAVE A COMMON SET OF PROBLEMS THAT THEY ENCOUNTER AS THEIR USAGE GETS HEAVIER AND REQUIREMENTS GET MORE DEMANDING PEEK INTO THE FUTURE OF YOUR POSTGRESQL 10 DATABASE S PROBLEMS TODAY KNOW THE WARNING SIGNS TO LOOK FOR AND HOW TO AVOID THE MOST COMMON ISSUES BEFORE THEY EVEN HAPPEN SURPRISINGLY MOST POSTGRESQL DATABASE APPLICATIONS EVOLVE IN THE SAME WAY CHOOSE THE RIGHT HARDWARE TUNE THE OPERATING SYSTEM AND SERVER MEMORY USE OPTIMIZE QUERIES AGAINST THE DATABASE AND CPUS WITH THE RIGHT INDEXES AND MONITOR EVERY LAYER FROM HARDWARE TO QUERIES USING TOOLS FROM INSIDE AND OUTSIDE POSTGRESQL ALSO USING MONITORING INSIGHT POSTGRESQL DATABASE APPLICATIONS CONTINUOUSLY REWORK THE DESIGN AND CONFIGURATION ON REACHING THE LIMITS OF A SINGLE SERVER THEY BREAK THINGS UP CONNECTION POOLING CACHING PARTITIONING REPLICATION AND PARALLEL QUERIES CAN ALL HELP HANDLE INCREASING DATABASE WORKLOADS BY THE END OF THIS BOOK YOU WILL HAVE ALL THE KNOWLEDGE YOU NEED TO DESIGN RUN AND MANAGE YOUR POSTGRESQL SOLUTION WHILE ENSURING HIGH PERFORMANCE AND HIGH AVAILABILITY WHAT YOU WILL LEARN LEARN BEST PRACTICES FOR SCALING POSTGRESQL 10 INSTALLATIONS DISCOVER THE BEST HARDWARE FOR DEVELOPING HIGH PERFORMANCE POSTGRESQL APPLICATIONS BENCHMARK YOUR WHOLE SYSTEM FROM HARDWARE TO APPLICATION LEARN BY REAL EXAMPLES HOW SERVER PARAMETERS IMPACT PERFORMANCE DISCOVER

POSTGRESQL 10 FEATURES FOR PARTITIONING AND PARALLEL QUERY
MONITOR YOUR SERVER BOTH INSIDE AND OUTSIDE THE DATABASE DESIGN
AND IMPLEMENT A GOOD REPLICATION SYSTEM ON POSTGRESQL 10 WHO
THIS BOOK IS FOR THIS BOOK IS DESIGNED FOR DATABASE ADMINISTRATORS
AND POSTGRESQL ARCHITECTS WHO ALREADY USE OR PLAN TO EXPLOIT THE
FEATURES OF POSTGRESQL 10 TO DESIGN AND MAINTAIN A HIGH
PERFORMANCE POSTGRESQL DATABASE A WORKING KNOWLEDGE OF SQL AND
SOME EXPERIENCE WITH POSTGRESQL WILL BE HELPFUL IN GETTING THE MOST
OUT OF THIS BOOK PROCEEDINGS OF THE SUMMERSCHOOL ON HIGH
PERFORMANCE COMPUTING IN FLUID DYNAMICS HELD AT DELFT UNIVERSITY OF
TECHNOLOGY THE NETHERLANDS JUNE 24 28 1996 NOWADAYS IT IS
IMPOSSIBLE TO IMAGINE A BUSINESS WITHOUT TECHNOLOGY AS MOST
INDUSTRIES ARE BECOMING SMARTER AND MORE TECH DRIVEN RANGING FROM
SMALL INDIVIDUAL TECH INITIATIVES TO COMPLETE BUSINESS MODELS WITH
INTERTWINED SUPPLY CHAINS AND PLATFORM BASED BUSINESS MODELS NEW
WAYS OF WORKING SUCH AS AGILE AND DEVOPS HAVE BEEN INTRODUCED
LEADING TO NEW RISKS THESE RISKS COME IN THE FORM OF NEW CHALLENGES
FOR TEAMS WORKING TOGETHER IN A DISTRIBUTED MANNER PRIVACY
CONCERNS HUMAN AUTONOMY AND CYBERSECURITY CONCERNS TECHNOLOGY
IS NOW INTEGRATED INTO THE BUSINESS DISCIPLINE AND IS HERE TO STAY
LEADING TO THE NEED FOR A THOROUGH UNDERSTANDING OF HOW TO
ADDRESS THESE RISKS AND ALL THE POTENTIAL PROBLEMS THAT COULD
ARISE WITH THE ADVENT OF ORGANIZED CRIME SUCH AS HACKS AND DENIAL
OF SERVICE ATTACKS ALL KINDS OF MALICIOUS ACTORS ARE INFILTRATING
THE DIGITAL SOCIETY IN NEW AND UNIQUE WAYS SYSTEMS WITH POOR
DESIGN IMPLEMENTATION AND CONFIGURATIONS ARE EASILY TAKEN
ADVANTAGE OF WHEN IT COMES TO INTEGRATING BUSINESS AND
TECHNOLOGY THERE NEEDS TO BE APPROACHES FOR ASSURING SECURITY
AGAINST RISKS THAT CAN THREATEN BOTH BUSINESSES AND THEIR DIGITAL
PLATFORMS STRATEGIC APPROACHES TO DIGITAL PLATFORM SECURITY
ASSURANCE OFFERS COMPREHENSIVE DESIGN SCIENCE RESEARCH APPROACHES
TO EXTENSIVELY EXAMINE RISKS IN DIGITAL PLATFORMS AND OFFER
PRAGMATIC SOLUTIONS TO THESE CONCERNS AND CHALLENGES THIS BOOK
ADDRESSES SIGNIFICANT PROBLEMS WHEN TRANSFORMING AN ORGANIZATION
EMBRACING API BASED PLATFORM MODELS THE USE OF DEVOPS TEAMS AND
ISSUES IN TECHNOLOGICAL ARCHITECTURES EACH SECTION WILL EXAMINE THE

STATUS QUO FOR BUSINESS TECHNOLOGIES THE CURRENT CHALLENGES AND CORE SUCCESS FACTORS AND APPROACHES THAT HAVE BEEN USED THIS BOOK IS IDEAL FOR SECURITY ANALYSTS SOFTWARE ENGINEERS COMPUTER ENGINEERS EXECUTIVES MANAGERS IT CONSULTANTS BUSINESS PROFESSIONALS RESEARCHERS ACADEMICIANS AND STUDENTS WHO WANT TO GAIN INSIGHT AND DEEPER KNOWLEDGE OF SECURITY IN DIGITAL PLATFORMS AND GAIN INSIGHT INTO THE MOST IMPORTANT SUCCESS FACTORS AND APPROACHES UTILIZED BY BUSINESSES

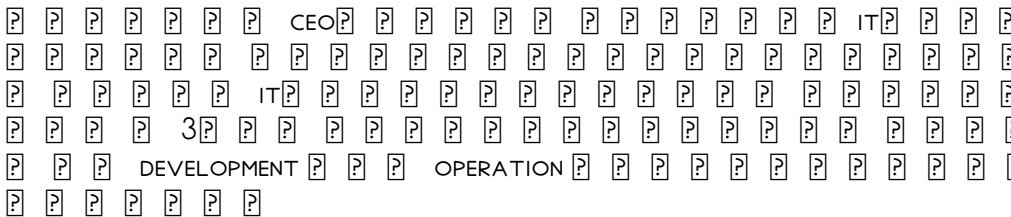
ACCELERATE

2018-03-27

WINNER OF THE SHINGO PUBLICATION AWARD ACCELERATE YOUR ORGANIZATION TO WIN IN THE MARKETPLACE HOW CAN WE APPLY TECHNOLOGY TO DRIVE BUSINESS VALUE FOR YEARS WE VE BEEN TOLD THAT THE PERFORMANCE OF SOFTWARE DELIVERY TEAMS DOESN T MATTER THAT IT CAN T PROVIDE A COMPETITIVE ADVANTAGE TO OUR COMPANIES THROUGH FOUR YEARS OF GROUNDBREAKING RESEARCH TO INCLUDE DATA COLLECTED FROM THE STATE OF DEVOPS REPORTS CONDUCTED WITH PUPPET DR NICOLE FORSGREN JEZ HUMBLE AND GENE KIM SET OUT TO FIND A WAY TO MEASURE SOFTWARE DELIVERY PERFORMANCE AND WHAT DRIVES IT USING RIGOROUS STATISTICAL METHODS THIS BOOK PRESENTS BOTH THE FINDINGS AND THE SCIENCE BEHIND THAT RESEARCH MAKING THE INFORMATION ACCESSIBLE FOR READERS TO APPLY IN THEIR OWN ORGANIZATIONS READERS WILL DISCOVER HOW TO MEASURE THE PERFORMANCE OF THEIR TEAMS AND WHAT CAPABILITIES THEY SHOULD INVEST IN TO DRIVE HIGHER PERFORMANCE THIS BOOK IS IDEAL FOR MANAGEMENT AT EVERY LEVEL



2012-03-15



THE SCIENCE BEHIND BUILDING DEVOPS AND

SCALING HIGH-PERFORMING TECHNOLOGY ORGANIZATIONS

2017-06-05

MYSQL MySQL 3 MySQL

THE DEVOPS

2014-08-12

ACCELERATE

2018

MAKE NO MISTAKE YOUR COMPANY HAS A CULTURE WHETHER YOU RE INTENTIONAL ABOUT IT OR NOT CORPORATE CULTURE IS GROUND ZERO FOR YOUR ORGANIZATION IF LEFT TO CHANCE CORPORATE CULTURE WILL FALL TO THE LOWEST COMMON DENOMINATOR OR THE LOUDEST VOICE RESULTING IN INCONSISTENCY AT BEST AND VOLATILITY AT WORST SCALING YOUR COMPANY MEANS SCALING YOUR CULTURE FIRST YOU NEED A CLEAR PLAYBOOK WITH ACTIONABLE STEPS TO FOSTER ALIGNMENT AND A RESULTS DRIVEN TEAM OF PASSIONATE STAKEHOLDERS IN SCALING CULTURE RON LOVETT PROVIDES YOU WITH THE KEY COMPONENTS YOU NEED TO CREATE A SUCCESSFUL ORGANIZATION THAT LASTS THIS FULL CYCLE BOOK FOR SCALING CULTURE GIVES YOU THE FOUNDERS CEOS AND ORGANIZATIONAL LEADERS STRATEGIES FOR BRINGING YOUR COMPANY VALUES TO LIFE

MANAGING CHANGE OPERATING AS A TEAM AND MORE SCALING CULTURE GIVES YOU A BEHIND THE SCENES PERSPECTIVE OF RON S FIRST BOOK OUTRAGEOUS EMPOWERMENT THE INCREDIBLE STORY OF GIVING EMPLOYEES THEIR BRAINS BACK MOST BOOKS ABOUT CULTURE ARE BASED ON THEORY AND CASE STUDIES NOT THIS ONE SCALING CULTURE IS YOUR TACTICAL BLUEPRINT FOR ALIGNING YOUR ORGANIZATION AND THRIVING INTO THE FUTURE

MySQL

2013-11-22

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Clean Agile

2020-10-01

SCALING CULTURE: HOW TO BUILD AND SUSTAIN A RESILIENT, HIGH-PERFORMING ORGANIZATION

SCALING CULTURE: HOW TO BUILD AND SUSTAIN A RESILIENT, HIGH-PERFORMING ORGANIZATION

2022-02-22

PROVIDES A THOROUGH REVIEW OF PROPERTIES DURABILITY AND USE OF HIGH PERFORMANCE CONCRETE DERIVED FROM RECENT RESEARCH AND EXPERIENCE THIS BOOK CONTAINS CONTRIBUTIONS FROM THE LEADING FRENCH CANADIAN AND SWISS RESEARCHERS DESIGNERS AND MATERIAL SPECIALISTS TRANSLATED INTO ENGLISH FOR THE FIRST TIME



2014-04-20



2021-12

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 36TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING ISC HIGH PERFORMANCE 2021 HELD VIRTUALLY IN JUNE JULY 2021 THE 24 FULL PAPERS PRESENTED WERE CAREFULLY REVIEWED AND SELECTED FROM 74 SUBMISSIONS THE PAPERS COVER A BROAD RANGE OF TOPICS SUCH AS ARCHITECTURE NETWORKS AND STORAGE MACHINE LEARNING AI AND EMERGING TECHNOLOGIES HPC ALGORITHMS AND APPLICATIONS PERFORMANCE MODELING EVALUATION AND ANALYSIS AND PROGRAMMING ENVIRONMENTS AND SYSTEMS SOFTWARE



2020-06

AN IN DEPTH GUIDE COVERING SYSTEM ARCHITECTURE LOW LATENCY STRATEGIES RISK MANAGEMENT AND MACHINE LEARNING FOR EXPERIENCED PROGRAMMERS LOOKING TO ENTER THE FINANCIAL INDUSTRY AND BUILD HIGH PERFORMANCE TRADING SYSTEMS KEY FEATURES GET STARTED WITH BUILDING FINANCIAL TRADING SYSTEMS FOCUS ON SCALABILITY ARCHITECTURE AND IMPLEMENTING LOW LATENCY NETWORK COMMUNICATION IN C OPTIMIZE CODE AND USE PARALLEL COMPUTING TECHNIQUES FOR BETTER PERFORMANCE PURCHASE OF THE PRINT OR KINDLE BOOK INCLUDES A FREE PDF EBOOK BOOK DESCRIPTION UNLOCK THE SECRETS OF THE FINANCE INDUSTRY AND DIVE INTO THE WORLD OF HIGH PERFORMANCE TRADING SYSTEMS WITH C HIGH

PERFORMANCE FOR FINANCIAL SYSTEMS TRADING SYSTEMS ARE THE BACKBONE OF THE FINANCIAL WORLD AND UNDERSTANDING HOW TO BUILD THEM FOR OPTIMAL PERFORMANCE IS CRUCIAL FOR SUCCESS IF YOU VE EVER DREAMT OF CREATING SCALABLE AND CUTTING EDGE FINANCIAL SOFTWARE THIS GUIDE IS YOUR KEY TO SUCCESS A CORNERSTONE OF THIS BOOK IS ITS COVERAGE OF SYSTEM DESIGN AND ARCHITECTURE THE BOOK STARTS BY OUTLINING THE ROLE OF C IN FINANCE AND TRADING YOU LL LEARN THE PRINCIPLES AND METHODOLOGIES BEHIND BUILDING SYSTEMS THAT CAN HANDLE VAST AMOUNTS OF DATA EXECUTE COMPLEX TRADING STRATEGIES WITH EASE AND MAINTAIN THE HIGHEST LEVELS OF RELIABILITY ARMED WITH THIS KNOWLEDGE YOU LL BE EQUIPPED TO TACKLE EVEN THE MOST CHALLENGING TRADING SCENARIOS IN THE FAST PACED WORLD OF FINANCE EVERY MILLISECOND COUNTS THIS BOOK DELVES INTO LOW LATENCY STRATEGIES THAT WILL ENABLE YOUR TRADING SYSTEMS TO REACT WITH LIGHTNING SPEED YOU LL ALSO LEARN THE ART OF REDUCING LATENCY OPTIMIZING CODE AND LEVERAGING THE LATEST HARDWARE AND SOFTWARE TECHNIQUES TO GAIN A COMPETITIVE EDGE IN THE MARKET BY THE END OF THIS BOOK YOU LL BE WELL VERSED IN ARCHITECTING A FINANCIAL TRADING SYSTEM AS WELL AS ADVANCED STRATEGIES AND NEW INDUSTRY TRENDS WHAT YOU WILL LEARN DESIGN ARCHITECTURE FOR SCALABLE FINANCIAL TRADING SYSTEMS UNDERSTAND STRATEGIES FOR LOW LATENCY TRADING AND HIGH FREQUENCY TRADING DISCOVER HOW TO IMPLEMENT MACHINE LEARNING ALGORITHMS FOR FINANCIAL DATA ANALYSIS UNDERSTAND RISK MANAGEMENT TECHNIQUES FOR FINANCIAL TRADING SYSTEMS EXPLORE ADVANCED TOPICS IN FINANCE AND TRADING INCLUDING MACHINE LEARNING FOR ALGORITHMIC TRADING AND PORTFOLIO OPTIMIZATION GET UP TO SPEED WITH BEST PRACTICES FOR DEVELOPING FINANCIAL TRADING SYSTEMS WITH C WHO THIS BOOK IS FOR THIS BOOK IS FOR EXPERIENCED C DEVELOPERS WHO WANT TO ENTER THE FINANCE INDUSTRY AND LEARN HOW TRADING SYSTEMS WORK IT IS ALSO SUITABLE FOR QUANTITATIVE ANALYSTS FINANCIAL ENGINEERS AND ANYONE INTERESTED IN BUILDING SCALABLE AND ROBUST TRADING SYSTEMS THE BOOK ASSUMES FAMILIARITY WITH THE C PROGRAMMING LANGUAGE DATA STRUCTURES AND ALGORITHMS ADDITIONALLY READERS SHOULD HAVE A BASIC UNDERSTANDING OF FINANCE AND TRADING CONCEPTS SUCH AS MARKET DATA TRADING STRATEGIES AND RISK MANAGEMENT

HIGH PERFORMANCE CONCRETE

1992-08-06

HIGH PERFORMANCE DATA MINING SCALING ALGORITHMS APPLICATIONS AND SYSTEMS BRINGS TOGETHER IN ONE PLACE IMPORTANT CONTRIBUTIONS AND UP TO DATE RESEARCH RESULTS IN THIS FAST MOVING AREA HIGH PERFORMANCE DATA MINING SCALING ALGORITHMS APPLICATIONS AND SYSTEMS SERVES AS AN EXCELLENT REFERENCE PROVIDING INSIGHT INTO SOME OF THE MOST CHALLENGING RESEARCH ISSUES IN THE FIELD



2015-07-31

THIS IBM REDBOOKS PUBLICATION DOCUMENTS AND ADDRESSES TOPICS TO PROVIDE STEP BY STEP PROGRAMMING CONCEPTS TO TUNE THE APPLICATIONS TO USE IBM POWER8 HARDWARE ARCHITECTURE WITH THE TECHNICAL COMPUTING SOFTWARE STACK THIS PUBLICATION EXPLORES TESTS AND DOCUMENTS HOW TO IMPLEMENT AN IBM HIGH PERFORMANCE COMPUTING HPC SOLUTION ON POWER8 BY USING IBM TECHNICAL INNOVATIONS TO HELP SOLVE CHALLENGING SCIENTIFIC TECHNICAL AND BUSINESS PROBLEMS THIS BOOK DEMONSTRATES AND DOCUMENTS THAT THE COMBINATION OF IBM HPC HARDWARE AND SOFTWARE SOLUTIONS DELIVERS SIGNIFICANT VALUE TO TECHNICAL COMPUTING CLIENTS IN NEED OF COST EFFECTIVE HIGHLY SCALABLE AND ROBUST SOLUTIONS THIS BOOK TARGETS TECHNICAL PROFESSIONALS CONSULTANTS TECHNICAL SUPPORT STAFF IT ARCHITECTS AND IT SPECIALISTS WHO ARE RESPONSIBLE FOR DELIVERING COST EFFECTIVE HPC SOLUTIONS THAT HELP UNCOVER INSIGHTS AMONG CLIENTS DATA SO THAT THEY CAN ACT TO OPTIMIZE BUSINESS RESULTS PRODUCT DEVELOPMENT AND SCIENTIFIC DISCOVERIES

HIGH PERFORMANCE COMPUTING

2021-06-17

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS PAPERS FROM THE 8TH INTERNATIONAL WORKSHOP ON PERFORMANCE MODELING BENCHMARKING AND SIMULATION OF HIGH PERFORMANCE COMPUTING SYSTEMS PMBS 2017 HELD IN DENVER COLORADO USA IN NOVEMBER 2017 THE 10 FULL PAPERS AND 3 SHORT PAPERS INCLUDED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FROM 36 SUBMISSIONS THEY WERE ORGANIZED IN TOPICAL SECTIONS NAMED PERFORMANCE EVALUATION AND ANALYSIS PERFORMANCE MODELING AND SIMULATION AND SHORT PAPERS

C++ HIGH PERFORMANCE FOR FINANCIAL SYSTEMS

2024-03-29

AUTHORS JIM JEFFERS AND JAMES REINDERS SPENT TWO YEARS HELPING EDUCATE CUSTOMERS ABOUT THE PROTOTYPE AND PRE PRODUCTION HARDWARE BEFORE INTEL INTRODUCED THE FIRST INTEL XEON PHI COPROCESSOR THEY HAVE DISTILLED THEIR OWN EXPERIENCES COUPLED WITH INSIGHTS FROM MANY EXPERT CUSTOMERS INTEL FIELD ENGINEERS APPLICATION ENGINEERS AND TECHNICAL CONSULTING ENGINEERS TO CREATE THIS AUTHORITATIVE FIRST BOOK ON THE ESSENTIALS OF PROGRAMMING FOR THIS NEW ARCHITECTURE AND THESE NEW PRODUCTS THIS BOOK IS USEFUL EVEN BEFORE YOU EVER TOUCH A SYSTEM WITH AN INTEL XEON PHI COPROCESSOR TO ENSURE THAT YOUR APPLICATIONS RUN AT MAXIMUM EFFICIENCY THE AUTHORS EMPHASIZE KEY TECHNIQUES FOR PROGRAMMING ANY MODERN PARALLEL COMPUTING SYSTEM WHETHER BASED ON INTEL XEON PROCESSORS INTEL XEON PHI COPROCESSORS OR OTHER HIGH PERFORMANCE MICROPROCESSORS APPLYING THESE TECHNIQUES WILL GENERALLY INCREASE YOUR PROGRAM PERFORMANCE ON ANY SYSTEM AND BETTER PREPARE YOU FOR INTEL XEON PHI COPROCESSORS AND THE INTEL MIC ARCHITECTURE A PRACTICAL GUIDE TO THE ESSENTIALS OF THE INTEL XEON PHI COPROCESSOR PRESENTS BEST PRACTICES FOR PORTABLE HIGH PERFORMANCE COMPUTING

AND A FAMILIAR AND PROVEN THREADED SCALAR VECTOR PROGRAMMING MODEL INCLUDES SIMPLE BUT INFORMATIVE CODE EXAMPLES THAT EXPLAIN THE UNIQUE ASPECTS OF THIS NEW HIGHLY PARALLEL AND HIGH PERFORMANCE COMPUTATIONAL PRODUCT COVERS WIDE VECTORS MANY CORES MANY THREADS AND HIGH BANDWIDTH CACHE MEMORY ARCHITECTURE

High Performance Data Mining

2007-05-08

FOR THE FOURTH TIME THE LEIBNIZ SUPERCOMPUTING CENTRE LRZ AND THE COM TENCE NETWORK FOR TECHNICAL SCIENTI C HIGH PERFORMANCE COMPUTING IN BAVARIA KONWIHR PUBLISHES THE RESULTS FROM SCIENTI C PROJECTS CONDUCTED ON THE C PUTER SYSTEMS HLRB I AND II HIGH PERFORMANCE COMPUTER IN BAVARIA THIS BOOK REPORTS THE RESEARCH CARRIED OUT ON THE HLRB SYSTEMS WITHIN THE LAST THREE YEARS AND COMPILES THE PROCEEDINGS OF THE THIRD JOINT HLRB AND KONWIHR RESULT AND REVIEWING WORKSHOP 3RD AND 4TH DECEMBER 2007 IN GARCHING IN 2000 HLRB I WAS THE RST SYSTEM IN EUROPE THAT WAS CAPABLE OF PERFORMING MORE THAN ONE TERA OP S OR ONE BILLION OATING POINT OPERATIONS PER SECOND IN 2006 IT WAS REPLACED BY HLRB II AFTER A SUBSTANTIAL UPGRADE IT NOW ACHIEVES A PEAK PERFORMANCE OF MORE THAN 62 TERA OP S TO INSTALL AND OPERATE THIS POWERFUL SYSTEM LRZ HAD TO MOVE TO ITS NEW FACILITIES IN GARCHING HOWEVER THE SITUATION REGARDING THE NEED FOR MORE COMPUTATION CYCLES HAS NOT CHANGED MUCH SINCE 2000 THE DEMAND FOR HIGHER PERFORMANCE IS STILL PRESENT A TREND THAT IS LIKELY TO CONTINUE FOR THE FORESEEABLE FUTURE OTHER RESOURCES LIKE MEMORY AND DISK SPACE ARE CURRENTLY IN SUFICIENT ABUNDANCE ON THIS NEW SYSTEM

IMPLEMENTING AN IBM HIGH-PERFORMANCE COMPUTING SOLUTION ON IBM POWER8

2015-09-15

THIS BOOK CONSTITUTES THE REFEREED POST CONFERENCE PROCEEDINGS OF 13 WORKSHOPS HELD AT THE 34TH INTERNATIONAL ISC HIGH PERFORMANCE 2019 CONFERENCE IN FRANKFURT GERMANY IN JUNE 2019 HPC I O IN THE DATA CENTER HPC IODC WORKSHOP ON PERFORMANCE SCALABILITY OF STORAGE SYSTEMS WOPSSS WORKSHOP ON PERFORMANCE SCALABILITY OF STORAGE SYSTEMS WOPSSS 13TH WORKSHOP ON VIRTUALIZATION IN HIGH PERFORMANCE CLOUD COMPUTING VHPC 18 3RD INTERNATIONAL WORKSHOP ON IN SITU VISUALIZATION INTRODUCTION AND APPLICATIONS EXACOMM FOURTH INTERNATIONAL WORKSHOP ON COMMUNICATION ARCHITECTURES FOR HPC BIG DATA DEEP LEARNING AND CLOUDS AT EXTREME SCALE INTERNATIONAL WORKSHOP ON OPENPOWER FOR HPC IWOPH 18 IXPUG WORKSHOP MANY CORE COMPUTING ON INTEL PROCESSORS APPLICATIONS PERFORMANCE AND BEST PRACTICE SOLUTIONS WORKSHOP ON SUSTAINABLE ULTRASCALE COMPUTING SYSTEMS APPROXIMATE AND TRANSPRECISION COMPUTING ON EMERGING TECHNOLOGIES ATCET FIRST WORKSHOP ON THE CONVERGENCE OF LARGE SCALE SIMULATION AND ARTIFICIAL INTELLIGENCE 3RD WORKSHOP FOR OPEN SOURCE SUPERCOMPUTING OPENSUCO FIRST WORKSHOP ON INTERACTIVE HIGH PERFORMANCE COMPUTING WORKSHOP ON PERFORMANCE PORTABLE PROGRAMMING MODELS FOR ACCELERATORS P 3MA THE 48 FULL PAPERS INCLUDED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED THEY COVER ALL ASPECTS OF RESEARCH DEVELOPMENT AND APPLICATION OF LARGE SCALE HIGH PERFORMANCE EXPERIMENTAL AND COMMERCIAL SYSTEMS TOPICS INCLUDE HPC COMPUTER ARCHITECTURE AND HARDWARE PROGRAMMING MODELS SYSTEM SOFTWARE AND APPLICATIONS SOLUTIONS FOR HETEROGENEITY RELIABILITY POWER EFFICIENCY OF SYSTEMS VIRTUALIZATION AND CONTAINERIZED ENVIRONMENTS BIG DATA AND CLOUD COMPUTING AND ARTIFICIAL INTELLIGENCE

HIGH PERFORMANCE COMPUTING SYSTEMS. PERFORMANCE MODELING, BENCHMARKING, AND SIMULATION

2017-12-22

THE 53 TECHNICAL PAPERS IN THIS BOOK SHOW THE IMPROVEMENTS AND

DESIGN TECHNIQUES THAT RESEARCHERS HAVE APPLIED TO PERFORMANCE AND RACING ENGINES THEY PROVIDE AN INSIGHT INTO WHAT THE ENGINEERS CONSIDER TO BE THE TOP IMPROVEMENTS NEEDED TO ADVANCE ENGINE TECHNOLOGY AND COVER SUBJECTS SUCH AS 1 DIRECT INJECTION 2 VALVE SPRING ADVANCEMENTS 3 TURBOCHARGING 4 VARIABLE VALVE CONTROL 5 COMBUSTION EVALUATION AND 5 NEW RACING ENGINES

INTEL XEON PHI COPROCESSOR HIGH PERFORMANCE PROGRAMMING

2013-02-11

THIS BOOK CONSTITUTES REVISED SELECTED PAPERS FROM 7 WORKSHOPS THAT WERE HELD IN CONJUNCTION WITH THE ISC HIGH PERFORMANCE 2016 CONFERENCE IN FRANKFURT GERMANY IN JUNE 2016 THE 45 PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY REVIEWED AND SELECTED FOR INCLUSION IN THIS BOOK THEY STEM FROM THE FOLLOWING WORKSHOPS WORKSHOP ON EXASCALE MULTI MANY CORE COMPUTING SYSTEMS E MUCOCOS SECOND INTERNATIONAL WORKSHOP ON COMMUNICATION ARCHITECTURES AT EXTREME SCALE EXACOMM HPC 10 IN THE DATA CENTER WORKSHOP HPC IODC INTERNATIONAL WORKSHOP ON OPENPOWER FOR HPC IWOPH WORKSHOP ON THE APPLICATION PERFORMANCE ON INTEL XEON PHI BEING PREPARED FOR KNL AND BEYOND IXPUG WORKSHOP ON PERFORMANCE AND SCALABILITY OF STORAGE SYSTEMS WOPSSS AND INTERNATIONAL WORKSHOP ON PERFORMANCE PORTABLE PROGRAMMING MODELS FOR ACCELERATORS P3MA

HIGH PERFORMANCE COMPUTING IN BIOMIMETICS

2008-10-22

THIS BOOK IS BASED ON THE 18 TUTORIALS PRESENTED DURING THE 23RD WORKSHOP ON ADVANCES IN ANALOG CIRCUIT DESIGN EXPERT DESIGNERS PRESENT READERS WITH INFORMATION ABOUT A VARIETY OF TOPICS AT THE FRONTIER OF ANALOG CIRCUIT DESIGN SERVING AS A VALUABLE REFERENCE TO

THE STATE OF THE ART FOR ANYONE INVOLVED IN ANALOG CIRCUIT
RESEARCH AND DEVELOPMENT

HIGH PERFORMANCE COMPUTING IN SCIENCE AND ENGINEERING '22

2019-12-02

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 15TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING HIPC 2008 HELD IN BANGALORE INDIA IN DECEMBER 2008 THE 46 REVISED FULL PAPERS PRESENTED TOGETHER WITH THE ABSTRACTS OF 5 KEYNOTE TALKS WERE CAREFULLY REVIEWED AND SELECTED FROM 317 SUBMISSIONS THE PAPERS ARE ORGANIZED IN TOPICAL SECTIONS ON APPLICATIONS PERFORMANCE OPTIMIZATION PARALLEL ALGORITHMS AND APPLICATIONS SCHEDULING AND RESOURCE MANAGEMENT SENSOR NETWORKS ENERGY AWARE COMPUTING DISTRIBUTED ALGORITHMS COMMUNICATION NETWORKS AS WELL AS ARCHITECTURE

HIGH PERFORMANCE COMPUTING IN SCIENCE AND ENGINEERING, GARCHING/MUNICH 2007

2003-08-05

CONTEMPORARY HIGH PERFORMANCE COMPUTING FROM PETASCALE TOWARD EXASCALE VOLUME 3 FOCUSES ON THE ECOSYSTEMS SURROUNDING THE WORLD S LEADING CENTERS FOR HIGH PERFORMANCE COMPUTING HPC IT COVERS MANY OF THE IMPORTANT FACTORS INVOLVED IN EACH ECOSYSTEM COMPUTER ARCHITECTURES SOFTWARE APPLICATIONS FACILITIES AND SPONSORS THIS THIRD VOLUME WILL BE A CONTINUATION OF THE TWO PREVIOUS VOLUMES AND WILL INCLUDE OTHER HPC ECOSYSTEMS USING THE SAME CHAPTER OUTLINE DESCRIPTION OF A FLAGSHIP SYSTEM MAJOR APPLICATION WORKLOADS FACILITIES AND SPONSORS FEATURES DESCRIBES MANY PROMINENT INTERNATIONAL SYSTEMS IN HPC FROM 2015 THROUGH

2017 INCLUDING EACH SYSTEM S HARDWARE AND SOFTWARE ARCHITECTURE
COVERS FACILITIES FOR EACH SYSTEM INCLUDING POWER AND COOLING
PRESENTS APPLICATION WORKLOADS FOR EACH SITE DISCUSSES HISTORIC
AND PROJECTED TRENDS IN TECHNOLOGY AND APPLICATIONS INCLUDES
CONTRIBUTIONS FROM LEADING EXPERTS DESIGNED FOR RESEARCHERS AND
STUDENTS IN HIGH PERFORMANCE COMPUTING COMPUTATIONAL SCIENCE AND
RELATED AREAS THIS BOOK PROVIDES A VALUABLE GUIDE TO THE STATE OF
THE ART RESEARCH TRENDS AND RESOURCES IN THE WORLD OF HPC

HIGH PERFORMANCE COMPUTING

2016-10-05

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 4TH
INTERNATIONAL WORKSHOP PMBS 2013 IN DENVER CO USA IN NOVEMBER
2013 THE 14 PAPERS PRESENTED IN THIS VOLUME WERE CAREFULLY
REVIEWED AND SELECTED FROM 37 SUBMISSIONS THE SELECTED ARTICLES
BROADLY COVER TOPICS ON MASSIVELY PARALLEL AND HIGH PERFORMANCE
SIMULATIONS MODELING AND SIMULATION MODEL DEVELOPMENT AND
ANALYSIS PERFORMANCE OPTIMIZATION POWER ESTIMATION AND
OPTIMIZATION HIGH PERFORMANCE COMPUTING RELIABILITY PERFORMANCE
ANALYSIS AND NETWORK SIMULATIONS

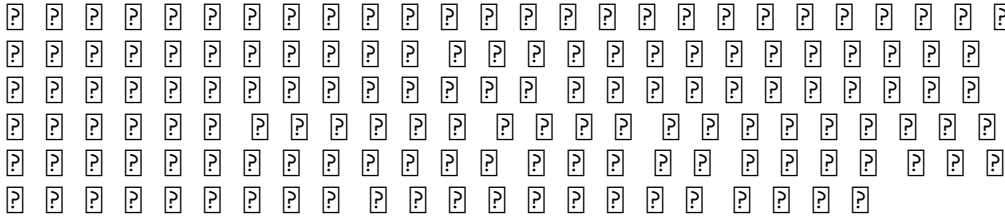
DESIGN OF RACING AND HIGH-PERFORMANCE ENGINES 1998-2003

2014-07-23

CODE COMPLETE MORE EFFECTIVE AGILE A
SOFTWARE LEADERS CONSTRUX PRESS 2019
15

HIGH PERFORMANCE COMPUTING

2008-11-23



HIGH-PERFORMANCE AD AND DA CONVERTERS, IC DESIGN IN SCALED TECHNOLOGIES, AND TIME-DOMAIN SIGNAL PROCESSING

2019-04-30

LEADING EDGE RESEARCH GROUPS IN THE FIELD OF SCIENTIFIC COMPUTING PRESENT THEIR OUTSTANDING PROJECTS USING THE HIGH PERFORMANCE COMPUTER IN BAVARIA HLRB HITACHI SR8000 F1 ONE OF THE TOP LEVEL SUPERCOMPUTERS FOR ACADEMIC RESEARCH IN GERMANY THE PROJECTS ADDRESS MODELLING AND SIMULATION IN THE DISCIPLINES BIOSCIENCES CHEMISTRY CHEMICAL PHYSICS SOLID STATE PHYSICS HIGH ENERGY PHYSICS ASTROPHYSICS GEOPHYSICS COMPUTATIONAL FLUID DYNAMICS AND COMPUTER SCIENCE THE AUTHORS DESCRIBE THEIR SCIENTIFIC BACKGROUND THEIR RESOURCE REQUIREMENTS WITH RESPECT TO TOP LEVEL SUPERCOMPUTERS AND THEIR METHODS FOR EFFICIENT UTILIZATION OF THE COSTLY HIGH PERFORMANCE COMPUTING POWER CONTRIBUTIONS OF INTERDISCIPLINARY RESEARCH PROJECTS THAT HAVE BEEN SUPPORTED BY THE COMPETENCE NETWORK FOR SCIENTIFIC HIGH PERFORMANCE COMPUTING IN BAVARIA KONWIHR COMPLETE THE BROAD RANGE OF SUPERCOMPUTER RESEARCH AND APPLICATIONS COVERED BY THIS VOLUME

HIGH PERFORMANCE COMPUTING - HIPC 2008

2014-09-30

THIS VOLUME CONSTITUTES THE PAPERS OF SEVERAL WORKSHOPS WHICH WERE HELD IN CONJUNCTION WITH THE 38TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING ISC HIGH PERFORMANCE 2023 HELD IN HAMBURG GERMANY DURING MAY 21 25 2023 THE 49 REVISED FULL PAPERS PRESENTED IN THIS BOOK WERE CAREFULLY REVIEWED AND SELECTED FROM 70 SUBMISSIONS ISC HIGH PERFORMANCE 2023 PRESENTS THE FOLLOWING WORKSHOPS 2ND INTERNATIONAL WORKSHOP ON MALLEABILITY TECHNIQUES APPLICATIONS IN HIGH PERFORMANCE COMPUTING HPCMALL 18TH WORKSHOP ON VIRTUALIZATION IN HIGH PERFORMANCE CLOUD COMPUTING VHPC 23 HPC I O IN THE DATA CENTER HPC IODC WORKSHOP ON CONVERGED COMPUTING OF CLOUD HPC AND EDGE WOCC 23 7TH INTERNATIONAL WORKSHOP ON IN SITU VISUALIZATION WOIV 23 WORKSHOP ON MONITORING AND OPERATIONAL DATA ANALYTICS MODA23 2ND WORKSHOP ON COMMUNICATION I O AND STORAGE AT SCALE ON NEXT GENERATION PLATFORMS SCALABLE INFRASTRUCTURES FIRST INTERNATIONAL WORKSHOP ON RISC V FOR HPC SECOND COMBINED WORKSHOP ON INTERACTIVE AND URGENT SUPERCOMPUTING CWIUS HPC ON HETEROGENEOUS HARDWARE H3

CONTEMPORARY HIGH PERFORMANCE COMPUTING

2020-06-12

APACHE SPARK IS AMAZING WHEN EVERYTHING CLICKS BUT IF YOU HAVEN T SEEN THE PERFORMANCE IMPROVEMENTS YOU EXPECTED OR STILL DON T FEEL CONFIDENT ENOUGH TO USE SPARK IN PRODUCTION THIS PRACTICAL BOOK IS FOR YOU AUTHORS HOLDEN KARAU AND RACHEL WARREN DEMONSTRATE PERFORMANCE OPTIMIZATIONS TO HELP YOUR SPARK QUERIES RUN FASTER AND HANDLE LARGER DATA SIZES WHILE USING FEWER RESOURCES IDEAL FOR SOFTWARE ENGINEERS DATA ENGINEERS DEVELOPERS AND SYSTEM ADMINISTRATORS WORKING WITH LARGE SCALE DATA APPLICATIONS THIS

BOOK DESCRIBES TECHNIQUES THAT CAN REDUCE DATA INFRASTRUCTURE COSTS AND DEVELOPER HOURS NOT ONLY WILL YOU GAIN A MORE COMPREHENSIVE UNDERSTANDING OF SPARK YOU LL ALSO LEARN HOW TO MAKE IT SING WITH THIS BOOK YOU LL EXPLORE HOW SPARK SQL S NEW INTERFACES IMPROVE PERFORMANCE OVER SQL S RDD DATA STRUCTURE THE CHOICE BETWEEN DATA JOINS IN CORE SPARK AND SPARK SQL TECHNIQUES FOR GETTING THE MOST OUT OF STANDARD RDD TRANSFORMATIONS HOW TO WORK AROUND PERFORMANCE ISSUES IN SPARK S KEY VALUE PAIR PARADIGM WRITING HIGH PERFORMANCE SPARK CODE WITHOUT SCALA OR THE JVM HOW TO TEST FOR FUNCTIONALITY AND PERFORMANCE WHEN APPLYING SUGGESTED IMPROVEMENTS USING SPARK MLLIB AND SPARK ML MACHINE LEARNING LIBRARIES SPARK S STREAMING COMPONENTS AND EXTERNAL COMMUNITY PACKAGES

HIGH PERFORMANCE COMPUTING SYSTEMS. PERFORMANCE MODELING, BENCHMARKING AND SIMULATION

2000-02-25

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON HIGH PERFORMANCE COMPUTING HIPC 2006 HELD IN BANGALORE INDIA DECEMBER 2006 COVERAGE IN THIS VOLUME INCLUDES SCHEDULING AND LOAD BALANCING NETWORK AND DISTRIBUTED ALGORITHMS APPLICATION SOFTWARE NETWORK SERVICES AD HOC NETWORKS SYSTEMS SOFTWARE SENSOR NETWORKS AND PERFORMANCE EVALUATION AS WELL AS ROUTING AND DATA MANAGEMENT ALGORITHMS

MORE EFFECTIVE AGILE “? ? ? ? ? ? ? ? ? ? ? 28? ? ?

2004-09-22

HIGH PERFORMANCE MYSQL IS THE DEFINITIVE GUIDE TO BUILDING FAST

RELIABLE SYSTEMS WITH MYSQL WRITTEN BY NOTED EXPERTS WITH YEARS OF REAL WORLD EXPERIENCE BUILDING VERY LARGE SYSTEMS THIS BOOK COVERS EVERY ASPECT OF MYSQL PERFORMANCE IN DETAIL AND FOCUSES ON ROBUSTNESS SECURITY AND DATA INTEGRITY HIGH PERFORMANCE MYSQL TEACHES YOU ADVANCED TECHNIQUES IN DEPTH SO YOU CAN BRING OUT MYSQL S FULL POWER LEARN HOW TO DESIGN SCHEMAS INDEXES QUERIES AND ADVANCED MYSQL FEATURES FOR MAXIMUM PERFORMANCE AND GET DETAILED GUIDANCE FOR TUNING YOUR MYSQL SERVER OPERATING SYSTEM AND HARDWARE TO THEIR FULLEST POTENTIAL YOU LL ALSO LEARN PRACTICAL SAFE HIGH PERFORMANCE WAYS TO SCALE YOUR APPLICATIONS WITH REPLICATION LOAD BALANCING HIGH AVAILABILITY AND FAILOVER THIS SECOND EDITION IS COMPLETELY REVISED AND GREATLY EXPANDED WITH DEEPER COVERAGE IN ALL AREAS MAJOR ADDITIONS INCLUDE EMPHASIS THROUGHOUT ON BOTH PERFORMANCE AND RELIABILITY THOROUGH COVERAGE OF STORAGE ENGINES INCLUDING IN DEPTH TUNING AND OPTIMIZATIONS FOR THE INNODB STORAGE ENGINE EFFECTS OF NEW FEATURES IN MYSQL 5 0 AND 5 1 INCLUDING STORED PROCEDURES PARTITIONED DATABASES TRIGGERS AND VIEWS A DETAILED DISCUSSION ON HOW TO BUILD VERY LARGE HIGHLY SCALABLE SYSTEMS WITH MYSQL NEW OPTIONS FOR BACKUPS AND REPLICATION OPTIMIZATION OF ADVANCED QUERYING FEATURES SUCH AS FULL TEXT SEARCHES FOUR NEW APPENDICES THE BOOK ALSO INCLUDES CHAPTERS ON BENCHMARKING PROFILING BACKUPS SECURITY AND TOOLS AND TECHNIQUES TO HELP YOU MEASURE MONITOR AND MANAGE YOUR MYSQL INSTALLATIONS



2023-09-25

LEVERAGE THE POWER OF POSTGRESQL 10 TO DESIGN ADMINISTER AND MAINTAIN A HIGH PERFORMANCE DATABASE SOLUTION KEY FEATURES OBTAIN OPTIMAL POSTGRESQL 10 DATABASE PERFORMANCE RANGING FROM INITIAL DESIGN TO ROUTINE MAINTENANCE FINE TUNE THE PERFORMANCE OF YOUR QUERIES AND AVOID THE COMMON PITFALLS THAT CAN SLOW YOUR SYSTEM DOWN CONTAINS TIPS AND TRICKS ON SCALING SUCCESSFUL DATABASE INSTALLATIONS AND ENSURING A HIGHLY AVAILABLE POSTGRESQL SOLUTION

BOOK DESCRIPTION POSTGRESQL DATABASE SERVERS HAVE A COMMON SET OF PROBLEMS THAT THEY ENCOUNTER AS THEIR USAGE GETS HEAVIER AND REQUIREMENTS GET MORE DEMANDING PEEK INTO THE FUTURE OF YOUR POSTGRESQL 10 DATABASE S PROBLEMS TODAY KNOW THE WARNING SIGNS TO LOOK FOR AND HOW TO AVOID THE MOST COMMON ISSUES BEFORE THEY EVEN HAPPEN SURPRISINGLY MOST POSTGRESQL DATABASE APPLICATIONS EVOLVE IN THE SAME WAY CHOOSE THE RIGHT HARDWARE TUNE THE OPERATING SYSTEM AND SERVER MEMORY USE OPTIMIZE QUERIES AGAINST THE DATABASE AND CPUS WITH THE RIGHT INDEXES AND MONITOR EVERY LAYER FROM HARDWARE TO QUERIES USING TOOLS FROM INSIDE AND OUTSIDE POSTGRESQL ALSO USING MONITORING INSIGHT POSTGRESQL DATABASE APPLICATIONS CONTINUOUSLY REWORK THE DESIGN AND CONFIGURATION ON REACHING THE LIMITS OF A SINGLE SERVER THEY BREAK THINGS UP CONNECTION POOLING CACHING PARTITIONING REPLICATION AND PARALLEL QUERIES CAN ALL HELP HANDLE INCREASING DATABASE WORKLOADS BY THE END OF THIS BOOK YOU WILL HAVE ALL THE KNOWLEDGE YOU NEED TO DESIGN RUN AND MANAGE YOUR POSTGRESQL SOLUTION WHILE ENSURING HIGH PERFORMANCE AND HIGH AVAILABILITY WHAT YOU WILL LEARN LEARN BEST PRACTICES FOR SCALING POSTGRESQL 10 INSTALLATIONS DISCOVER THE BEST HARDWARE FOR DEVELOPING HIGH PERFORMANCE POSTGRESQL APPLICATIONS BENCHMARK YOUR WHOLE SYSTEM FROM HARDWARE TO APPLICATION LEARN BY REAL EXAMPLES HOW SERVER PARAMETERS IMPACT PERFORMANCE DISCOVER POSTGRESQL 10 FEATURES FOR PARTITIONING AND PARALLEL QUERY MONITOR YOUR SERVER BOTH INSIDE AND OUTSIDE THE DATABASE DESIGN AND IMPLEMENT A GOOD REPLICATION SYSTEM ON POSTGRESQL 10 WHO THIS BOOK IS FOR THIS BOOK IS DESIGNED FOR DATABASE ADMINISTRATORS AND POSTGRESQL ARCHITECTS WHO ALREADY USE OR PLAN TO EXPLOIT THE FEATURES OF POSTGRESQL 10 TO DESIGN AND MAINTAIN A HIGH PERFORMANCE POSTGRESQL DATABASE A WORKING KNOWLEDGE OF SQL AND SOME EXPERIENCE WITH POSTGRESQL WILL BE HELPFUL IN GETTING THE MOST OUT OF THIS BOOK

High Performance Computing in Science and

ENGINEERING, MUNICH 2004

1994

PROCEEDINGS OF THE SUMMERSCHOOL ON HIGH PERFORMANCE COMPUTING IN FLUID DYNAMICS HELD AT DELFT UNIVERSITY OF TECHNOLOGY THE NETHERLANDS JUNE 24 28 1996

HIGH PERFORMANCE COMPUTING

2017-05-25

NOWADAYS IT IS IMPOSSIBLE TO IMAGINE A BUSINESS WITHOUT TECHNOLOGY AS MOST INDUSTRIES ARE BECOMING SMARTER AND MORE TECH DRIVEN RANGING FROM SMALL INDIVIDUAL TECH INITIATIVES TO COMPLETE BUSINESS MODELS WITH INTERTWINED SUPPLY CHAINS AND PLATFORM BASED BUSINESS MODELS NEW WAYS OF WORKING SUCH AS AGILE AND DEVOPS HAVE BEEN INTRODUCED LEADING TO NEW RISKS THESE RISKS COME IN THE FORM OF NEW CHALLENGES FOR TEAMS WORKING TOGETHER IN A DISTRIBUTED MANNER PRIVACY CONCERNS HUMAN AUTONOMY AND CYBERSECURITY CONCERNS TECHNOLOGY IS NOW INTEGRATED INTO THE BUSINESS DISCIPLINE AND IS HERE TO STAY LEADING TO THE NEED FOR A THOROUGH UNDERSTANDING OF HOW TO ADDRESS THESE RISKS AND ALL THE POTENTIAL PROBLEMS THAT COULD ARISE WITH THE ADVENT OF ORGANIZED CRIME SUCH AS HACKS AND DENIAL OF SERVICE ATTACKS ALL KINDS OF MALICIOUS ACTORS ARE INFILTRATING THE DIGITAL SOCIETY IN NEW AND UNIQUE WAYS SYSTEMS WITH POOR DESIGN IMPLEMENTATION AND CONFIGURATIONS ARE EASILY TAKEN ADVANTAGE OF WHEN IT COMES TO INTEGRATING BUSINESS AND TECHNOLOGY THERE NEEDS TO BE APPROACHES FOR ASSURING SECURITY AGAINST RISKS THAT CAN THREATEN BOTH BUSINESSES AND THEIR DIGITAL PLATFORMS STRATEGIC APPROACHES TO DIGITAL PLATFORM SECURITY ASSURANCE OFFERS COMPREHENSIVE DESIGN SCIENCE RESEARCH APPROACHES TO EXTENSIVELY EXAMINE RISKS IN DIGITAL PLATFORMS AND OFFER PRAGMATIC SOLUTIONS TO THESE CONCERNS AND CHALLENGES THIS BOOK ADDRESSES SIGNIFICANT PROBLEMS WHEN TRANSFORMING AN ORGANIZATION

EMBRACING API BASED PLATFORM MODELS THE USE OF DEVOPS TEAMS AND ISSUES IN TECHNOLOGICAL ARCHITECTURES EACH SECTION WILL EXAMINE THE STATUS QUO FOR BUSINESS TECHNOLOGIES THE CURRENT CHALLENGES AND CORE SUCCESS FACTORS AND APPROACHES THAT HAVE BEEN USED THIS BOOK IS IDEAL FOR SECURITY ANALYSTS SOFTWARE ENGINEERS COMPUTER ENGINEERS EXECUTIVES MANAGERS IT CONSULTANTS BUSINESS PROFESSIONALS RESEARCHERS ACADEMICIANS AND STUDENTS WHO WANT TO GAIN INSIGHT AND DEEPER KNOWLEDGE OF SECURITY IN DIGITAL PLATFORMS AND GAIN INSIGHT INTO THE MOST IMPORTANT SUCCESS FACTORS AND APPROACHES UTILIZED BY BUSINESSES

HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS

2006-12-18

HIGH PERFORMANCE SPARK

2008-06-18

HIGH PERFORMANCE COMPUTING - HIPC 2006

2018-04-30

HIGH PERFORMANCE MYSQL

2012-12-06

POSTGRESQL 10 HIGH PERFORMANCE

2021-05-21

HIGH PERFORMANCE COMPUTING IN FLUID DYNAMICS

STRATEGIC APPROACHES TO DIGITAL PLATFORM SECURITY ASSURANCE

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